Foundations of Algebra

Module 4: Equations and Inequalities

MODULE ANALYSIS TABLE

| Lesson | Time Allotment | Must Have/Condense/Possibly Omit  Notes |
| --- | --- | --- |
| 1. [The Variable Machine](#Variable) | n/a | Possibly Omit or Condense – based on time |
| 2. [Analyzing Solutions of Equations and Inequalities](#Analyzing) | 90 – 120 mins | Must Have |
| 3. [Set It Up](#Set) | 90 mins | Condense to 90 mins |
| 4. [Let’s Open a Business](#Let) | 120 mins | Use Illustrative Check I to determine if students are ready for scenarios |
| 5. [Solving Equations using Bar Diagrams](#Solving) | 120 mins | Must Have |
| 6. [Deconstructing Word Problems](#Deconstructing) | 120 mins | Must Have  Warm up can be streamlined |
| 7. [Steps to Solving an Equation (FAL)](#Steps) | 120 mins | Must Have |
| 8. [T.V. Time and Video Games](#TV) | 120 – 150 mins | Must Have |
| 9. [When is it Not Equal?](#When) | 60 – 90 mins | Condense  Choose a few of each problem type rather than using all problems |
| 10. Quick Check I | n/a | Possibly Omit depending on mastery level of students  Can be used for homework |
| 11. “[Illustrative](#When)” Check 1 | n/a | Use as needed throughout |
| 12. [Yogurt Packaging](#Yogurt) | 120 mins | Must Have  Good embedded review |
| 13. [Don’t Sink My Battleship!](#Battleship) | 90 mins | Condense  Combine opener with game |
| 14. [Acting Out](#Acting) | n/a | Condense – use within another lesson or Possibly Omit – based on time |
| 15. [Literal Equations](#Acting) | 60 - 90 mins | Condense  May need more problems to supplement |
| 16. [Free Throw Percentages](#Free) | 90 mins | Must Have  Good embedded review |
| 17. [Stacking Cups](#Stacking) | 120 – 150 mins | Must Have  Good 3-Act Task |
| 18. [Planning a Party](#Planning) | 90 mins | Must Have  Jumps into systems so may want to use Illustrative Check II to determine if students are ready |
| 19. [Field Day](#Field) | 90 – 120 mins | Must Have  Opener is fun |
| 20. Quick Check II | n/a | Possibly Omit depending on mastery level of students  Can be used for homework |
| 21. “Illustrative” Check II | n/a | Use as needed throughout |
| 22. [Is it Cheaper to Pay Monthly or Annually?](#Cheaper) | 120 – 150 mins | Must Have  Good culminating task |